



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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LumCAT:

Luminaire:

Report No: N/A

Test No: N/A

LampCAT:

Lamp flux(lm): 7000.8

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 120.02

Current(A): 0.4455

Power (W): 52.9880

PF: 0.991

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 7000.83

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 132.12

Central intensity(cd): 4818.801

Maximum intensity(cd): 4868.729

Angle of maximum intensity: C=0.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=89.2

[C90/270]Total=67.8

Field angle(10%Imax): [C0/180]Total=125.9

[C90/270]Total=102.4

Maximum s/h(1/2): C0_180=1.20 C90_270=1.06

Maximum s/h(1/4): C0_180=1.71 C90_270=1.07

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 100.00%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.961%

Equipment: GMS-3000
Temperature(°C): 25.2

Date:
Humidity(%): 60%

Operator: Sam

Zonal flux distribution table

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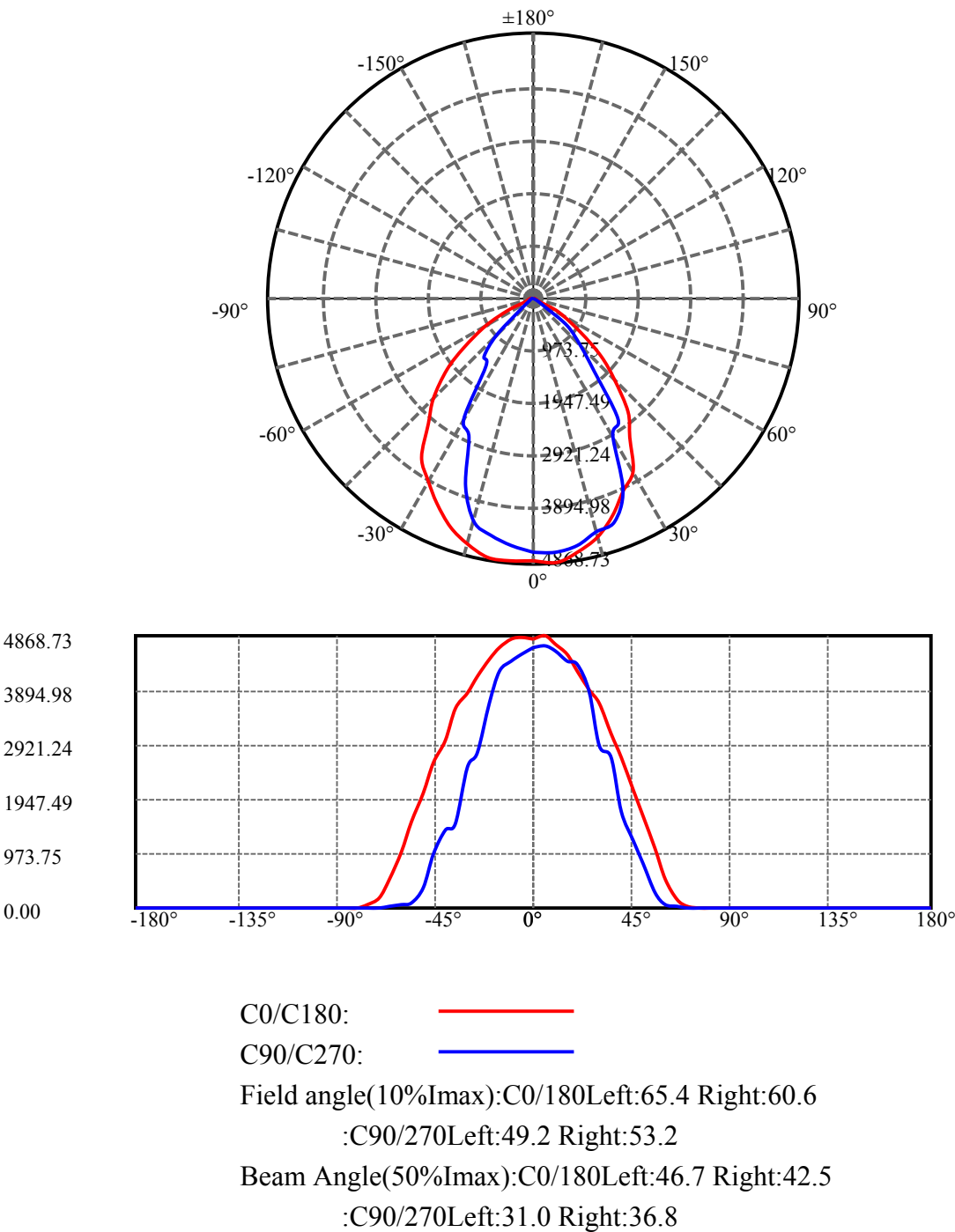
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4659.031	.000	.000	.000%	.000%
5.0	4647.641	111.259	111.259	1.589%	1.589%
10.0	4548.409	328.972	440.230	4.699%	6.288%
15.0	4421.717	532.102	972.332	7.601%	13.889%
20.0	4149.142	706.359	1678.691	10.090%	23.978%
25.0	3706.811	823.944	2502.636	11.769%	35.748%
30.0	3232.962	878.234	3380.870	12.545%	48.292%
35.0	2677.202	870.313	4251.183	12.432%	60.724%
40.0	2124.873	801.190	5052.373	11.444%	72.168%
45.0	1618.260	693.072	5745.444	9.900%	82.068%
50.0	1070.144	543.231	6288.676	7.760%	89.828%
55.0	603.942	364.002	6652.678	5.199%	95.027%
60.0	284.559	205.374	6858.052	2.934%	97.961%
65.0	106.690	95.113	6953.166	1.359%	99.319%
70.0	31.486	34.987	6988.152	.500%	99.819%
75.0	7.848	10.281	6998.434	.147%	99.966%
80.0	.562	2.250	7000.684	.032%	99.998%
85.0	.000	.153	7000.836	.002%	100.000%
90.0	.000	.000	7000.836	.000%	100.000%
95.0	.000	.000	7000.836	.000%	100.000%
100.0	.000	.000	7000.836	.000%	100.000%
105.0	.000	.000	7000.836	.000%	100.000%
110.0	.000	.000	7000.836	.000%	100.000%
115.0	.000	.000	7000.836	.000%	100.000%
120.0	.000	.000	7000.836	.000%	100.000%
125.0	.000	.000	7000.836	.000%	100.000%
130.0	.000	.000	7000.836	.000%	100.000%
135.0	.000	.000	7000.836	.000%	100.000%
140.0	.000	.000	7000.836	.000%	100.000%
145.0	.000	.000	7000.836	.000%	100.000%
150.0	.000	.000	7000.836	.000%	100.000%
155.0	.000	.000	7000.836	.000%	100.000%
160.0	.000	.000	7000.836	.000%	100.000%
165.0	.000	.000	7000.836	.000%	100.000%
170.0	.000	.000	7000.836	.000%	100.000%
175.0	.000	.000	7000.836	.000%	100.000%
180.0	.000	.000	7000.836	.000%	100.000%

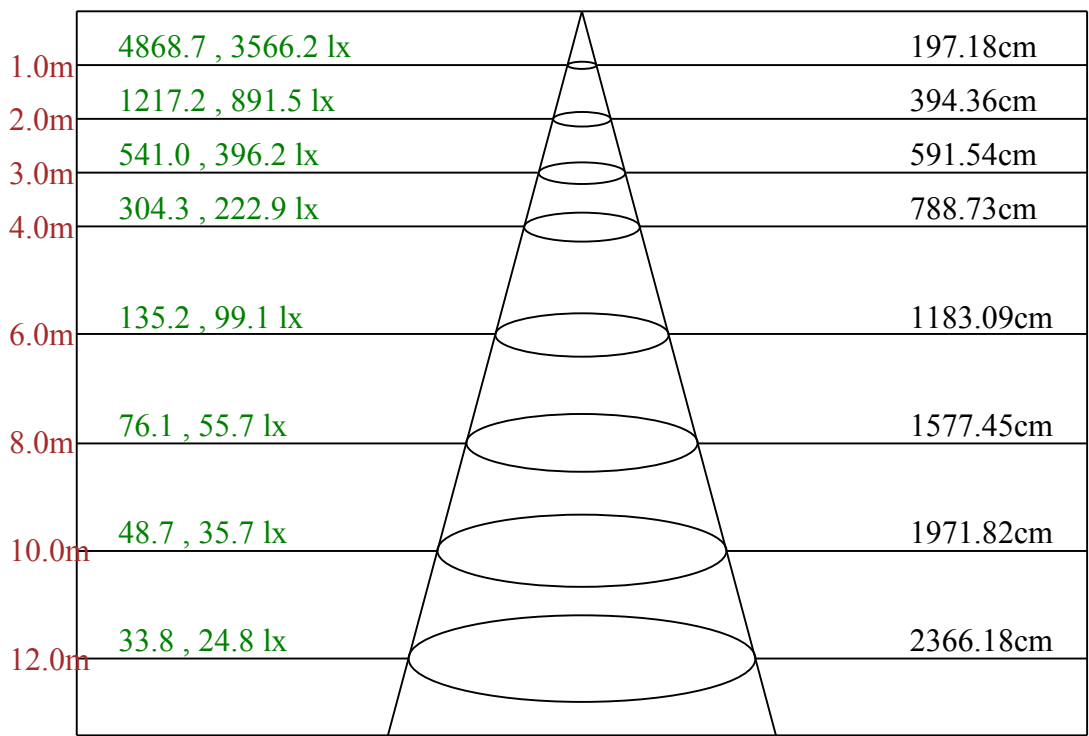
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3380.87	48.29%	48.29%
0-40	5052.37	72.17%	72.17%
0-60	6858.05	97.96%	97.96%
0-90	7000.84	100.00%	100.00%
0-120	7000.84	100.00%	100.00%
0-180	7000.84	100.00%	100.00%
60-90	348.16	4.97%	4.97%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-43.96	5600.67	80.00%	80.00%

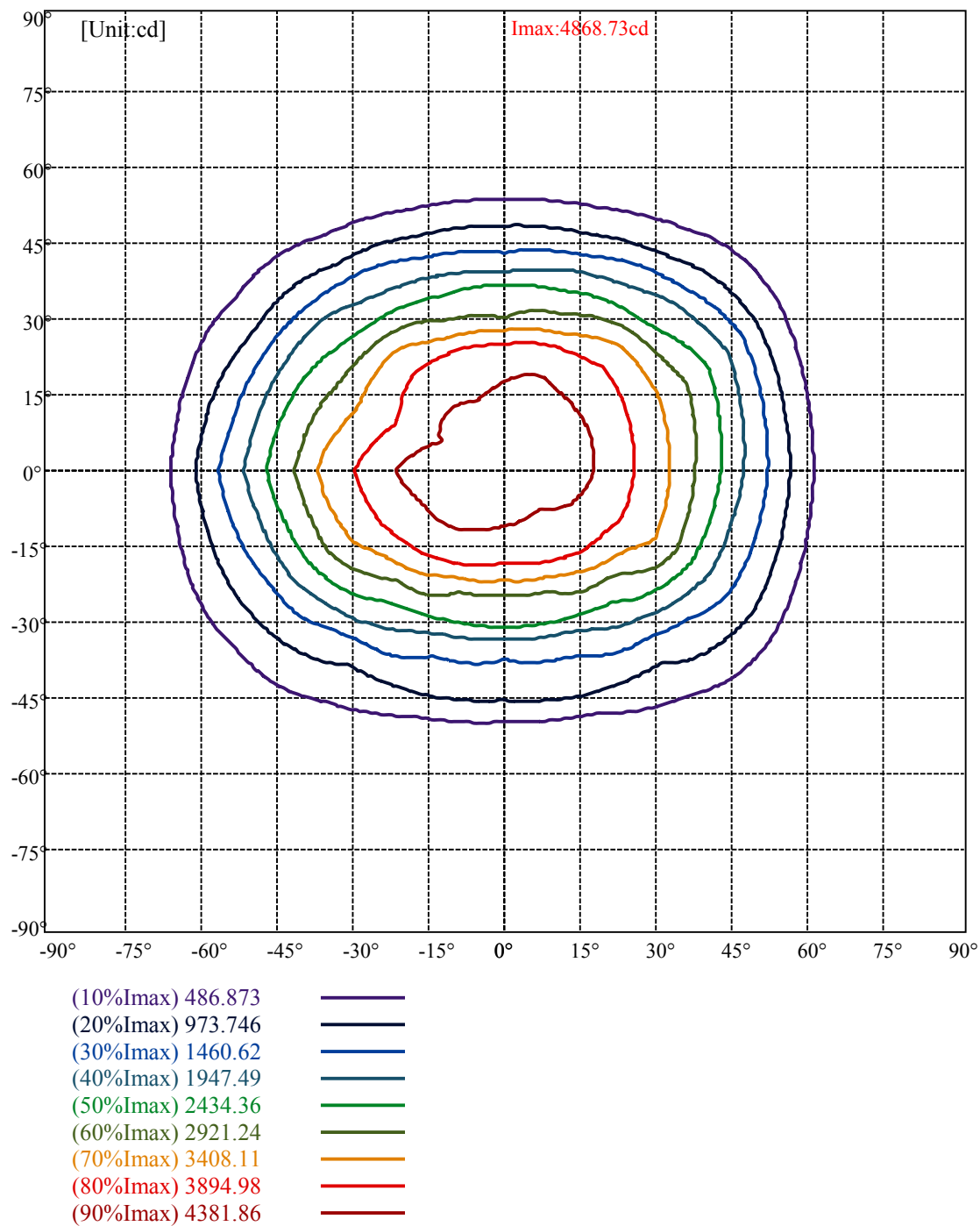
ZONAL LUMEN SUMMARY

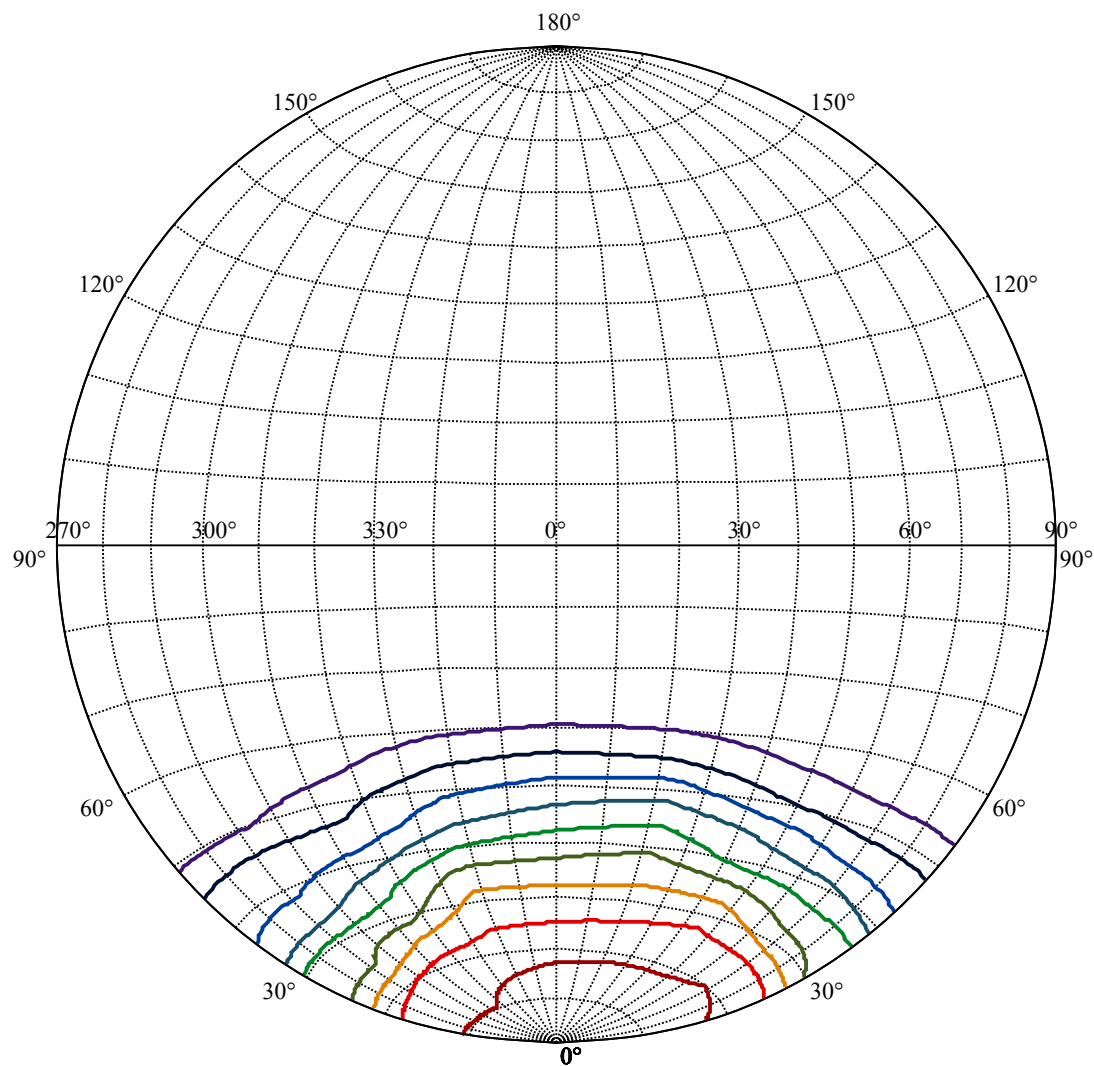
0-10	440.23
10-20	1238.46
20-30	1702.18
30-40	1671.50
40-50	1236.30
50-60	569.38
60-70	130.10
70-80	12.53
80-90	0.15
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0plane89.04



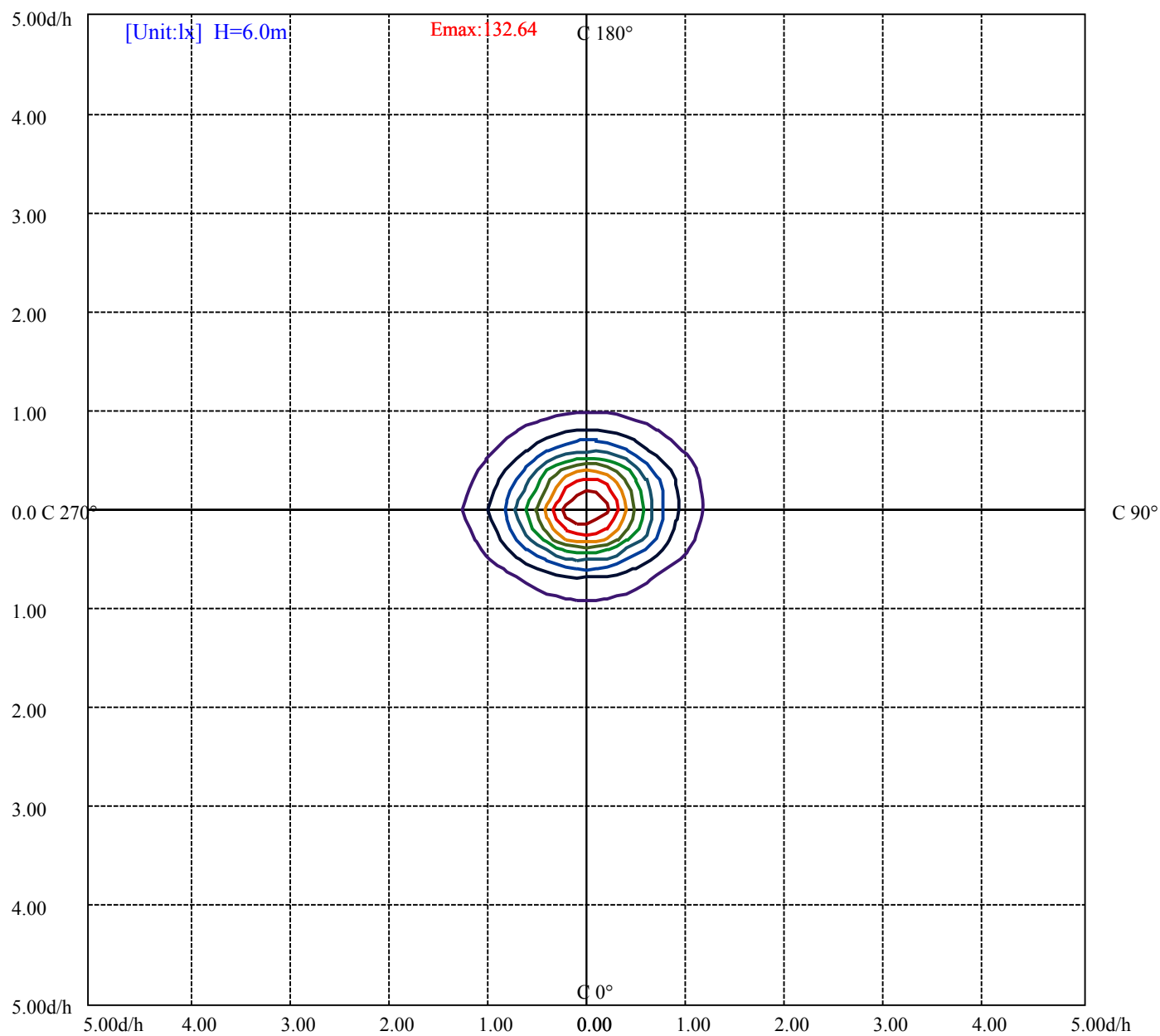


House

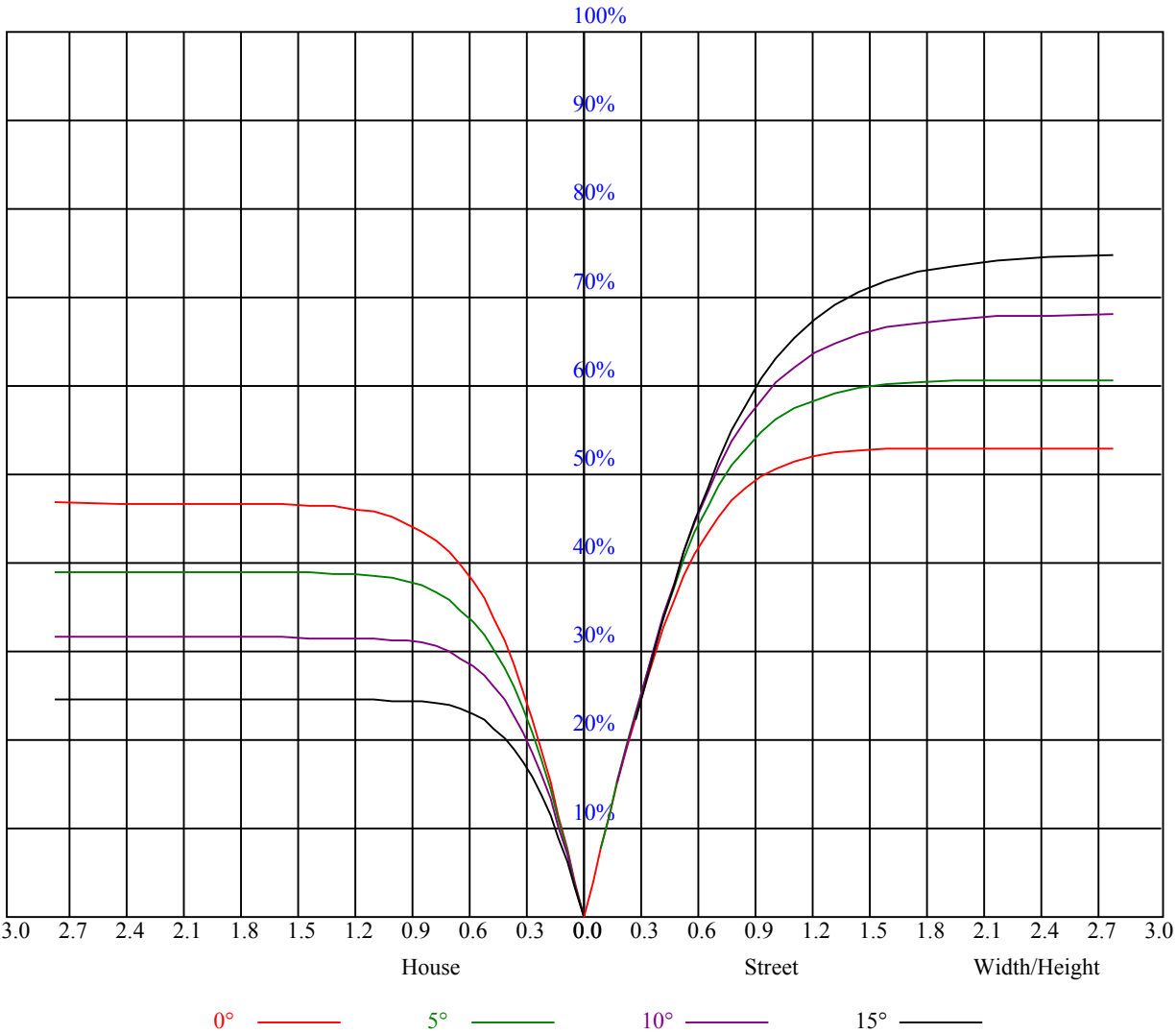
[Unit:cd]

Road

Imax:4868.73	
(10%Imax) 486.873	
(20%Imax) 973.746	
(30%Imax) 1460.62	
(40%Imax) 1947.49	
(50%Imax) 2434.36	
(60%Imax) 2921.24	
(70%Imax) 3408.11	
(80%Imax) 3894.98	
(90%Imax) 4381.86	



(10%Emax)	13.26358	—
(20%Emax)	26.52719	—
(30%Emax)	39.79083	—
(40%Emax)	53.05444	—
(50%Emax)	66.31805	—
(60%Emax)	79.58167	—
(70%Emax)	92.84528	—
(80%Emax)	106.1089	—
(90%Emax)	119.3722	—



Intensity data(cd)

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C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	4818.80	4868.73	4713.95	4526.72	4229.65	3912.61	3655.48	3106.27	2696.86
22.5	4728.93	4733.92	4581.64	4554.18	4282.08	3960.04	3682.94	3241.08	2844.15
45.0	4696.48	4746.41	4621.59	4579.15	4282.08	4047.41	3760.33	3111.26	2237.52
67.5	4644.05	4698.97	4639.06	4481.79	4381.93	4082.36	3208.62	2644.44	2110.21
90.0	4659.03	4684.00	4586.64	4421.87	4341.99	3857.69	2906.56	2679.39	1730.75
112.5	4589.13	4634.07	4536.71	4369.45	4259.61	3937.57	3048.85	2569.55	1952.93
135.0	4569.16	4614.10	4504.25	4441.84	4144.77	3937.57	3590.57	2861.62	2110.21
157.5	4566.67	4566.67	4424.37	4349.48	4077.37	3770.31	3483.23	3041.36	2641.94
180.0	4818.80	4838.77	4818.80	4646.55	4451.83	4149.77	3852.69	3570.60	3001.42
202.5	4728.93	4703.97	4664.02	4501.76	4219.67	3960.04	3635.51	3188.65	2587.02
225.0	4696.48	4631.57	4519.23	4396.91	4139.78	3645.49	2834.16	2337.38	1860.57
247.5	4644.05	4561.67	4449.33	4307.04	3892.64	2939.01	2626.96	1783.18	1326.34
270.0	4659.03	4549.19	4406.90	4244.63	3655.48	2789.23	2524.61	1506.08	1381.26
292.5	4589.13	4501.76	4389.42	4262.10	3832.72	2919.04	2626.96	1708.29	1338.82
315.0	4569.16	4494.27	4386.92	4282.08	4084.86	3528.16	2699.36	2342.37	1728.26
337.5	4566.67	4534.21	4531.72	4381.93	4109.82	3872.67	3590.57	3143.72	2449.72
360.0	4818.80	4868.73	4713.95	4526.72	4229.65	3912.61	3655.48	3106.27	2696.86

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	2125.19	1625.91	1071.71	524.99	143.04	40.69	5.74	0.00	0.00
22.5	2317.41	1748.23	996.81	490.04	145.54	28.21	0.75	0.00	0.00
45.0	1880.54	1081.69	589.90	265.37	50.68	10.74	0.00	0.00	0.00
67.5	1353.80	794.60	372.71	98.11	20.72	3.25	0.00	0.00	0.00
90.0	1211.50	792.11	280.35	60.66	15.73	0.75	0.00	0.00	0.00
112.5	1321.35	772.14	345.25	83.13	18.22	3.25	0.00	0.00	0.00
135.0	1765.70	981.83	520.00	202.96	45.68	8.24	0.00	0.00	0.00
157.5	2147.65	1523.55	862.01	470.07	145.54	25.71	0.75	0.00	0.00
180.0	2597.01	2045.30	1551.01	1011.79	507.52	168.01	55.67	5.74	0.00
202.5	2012.85	1366.28	959.37	505.02	227.92	73.15	20.72	3.25	0.00
225.0	1101.66	844.53	475.07	143.04	53.17	28.21	8.24	0.00	0.00
247.5	1086.68	510.02	133.06	60.66	38.20	13.23	3.25	0.00	0.00
270.0	959.37	377.71	95.61	58.17	33.20	13.23	3.25	0.00	0.00
292.5	1104.16	457.59	118.08	60.66	35.70	15.73	3.25	0.00	0.00
315.0	1086.68	844.53	405.17	123.07	45.68	23.22	5.74	0.00	0.00
337.5	1820.63	1356.29	886.97	395.18	180.49	48.18	18.22	0.00	0.00
360.0	2125.19	1625.91	1071.71	524.99	143.04	40.69	5.74	0.00	0.00

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C/γ(°)	180.0
0.0	0.00
22.5	0.00
45.0	0.00
67.5	0.00
90.0	0.00
112.5	0.00
135.0	0.00
157.5	0.00
180.0	0.00
202.5	0.00
225.0	0.00
247.5	0.00
270.0	0.00
292.5	0.00
315.0	0.00
337.5	0.00
360.0	0.00